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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,022	10/08/2004	Wolfgang Gruner	2002P06124WOUS	8720
7:	590 09/26/2005		EXAM	INER
Siemens Corporation			LEE, CHRISTOPHER E	
Intellectual Property Department 170 Wood Avenue South			ART UNIT	PAPER NUMBER
Iselin, NJ 088			2112	
	•		DATE MAILED: 09/26/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

X.		
	Application No.	Applicant(s)
	10/511,022	GRUNER ET AL.
Office Action Summary	Examiner	Art Unit
	Christopher E. Lee	2112
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR F WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communication of 18 No period for reply is specified above, the maximum statutory is a failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUNI CFR 1.136(a). In no event, however, may a ion. period will apply and will expire SIX (6) MOI statute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on	08 October 2004.	
,— .	This action is non-final.	
3) Since this application is in condition for a closed in accordance with the practice ur	llowance except for formal mat	•
Disposition of Claims		
4) ☐ Claim(s) 4-8 is/are pending in the applica 4a) Of the above claim(s) is/are wir 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 4-8 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction is	thdrawn from consideration.	
Application Papers		
9) The specification is objected to by the Exact 10) The drawing(s) filed on 08 October 2004 is Applicant may not request that any objection Replacement drawing sheet(s) including the country. The oath or declaration is objected to by the country of the countr	is/are: a) accepted or b) octo to the drawing(s) be held in abeya correction is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) ⊠ Acknowledgment is made of a claim for for a) ⊠ All b) □ Some * c) □ None of: 1. ☑ Certified copies of the priority document of the priority document of the priority document of the certified copies of the application from the International Experiment of the attached detailed Office action for the priority document of the certified copies of the application from the International Experiment of the attached detailed Office action for the priority document of th	uments have been received. Iments have been received in A e priority documents have beer Bureau (PCT Rule 17.2(a)).	Application No n received in this National Stage
Attachment(s) 1) Molice of References Cited (PTO-892)	4) 🔲 Interview	Summary (PTO-413)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-94) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/92) Paper No(s)/Mail Date 10/8/04. 	48) Paper No	(s)/Mail Date Informal Patent Application (PTO-152)

Application/Control Number: 10/511,022 Page 2

Art Unit: 2112 Non-Final Office Action

DETAILED ACTION

Receipt Acknowledgement

1. Receipt is acknowledged of the Preliminary Amendment filed on 8th of October 2004. No claim has been amended; claims 1-3 have been canceled; and claims 4-8 have been newly added. Currently, claims 4-8 are pending in this Application.

Drawings

2. Figures 1 and 2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated (See Specification, page 2, paragraphs [0005]-[0006]. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

- 3. The claims 6 and 7 recite the subject matter "the differential transmission principle" in line 2, respectively. However, it has not been specifically clarified in the claims 6 and 7, and their intervening claims, respectively. Therefore, the Examiner presumes that the term "the differential transmission principle" could be considered as --a differential transmission principle-- in light of the specification since it is not defined in the claims.
- 4. The claim 8 recite their limitations without a transitional phrase, such as "comprising," "further comprising," or "consisting of", etc. (See M.P.E.P. 2111.03 Transitional Phrase). Thus, the claim 8 doesn't define its scope of the claimed invention. The Examiner presumes the transitional phrase for the claim 8 would be the open transitional phrase "comprising" in light of the specification for the purpose of reject the claim 8 by prior art.

Art Unit: 2112 Non-Final Office Action

5. Applicant is advised that should claim 4 be found allowable, claim 8 will be objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

7. Claims 4-8 are rejected under 35 U.S.C. 102(e) as being anticipated by Becker [US 6,233,509 B1].

Referring to claim 4, Becker discloses a system (i.e., electronic diagnostic system; See Abstract and col. 1, lines 6-7) for connecting a mobile data unit (i.e., test equipment Analyzer 3 of Fig. 1) to a field bus (i.e., CAN bus; See col. 2, lines 54-59), comprising:

• a coupling unit (i.e., Active connector 1 of Fig. 1) connected to the field bus (i.e., said CAN bus) via a spur line (i.e., Conductors 5-8 in Fig. 1) and a line driver (i.e., physical layer Circuit 9 of Fig. 1; See col. 2, line 53 through col. 3, line 1), wherein

Application/Control Number: 10/511,022 Page 4
Art Unit: 2112 Non-Final Office Action

o signals (i.e., unidirectional digital signals) at the output of the line driver (i.e., at the output of said physical layer Circuit; See col. 2, lines 65-67) are injected via a first level converter (i.e., a first differential line driver/receiver circuit 11 of Fig. 1) into a data link (i.e., Cable 2 of Fig. 1) or are received from the data link (See col. 3, lines 1-3 and Fig. 1); and

- a mobile data unit (i.e., test equipment Analyzer 3 of Fig. 1) receiving the signals (i.e., said unidirectional digital signals) via a second level converter (i.e., a second differential line driver/receiver circuit 12 of Fig. 1; See col. 3, lines 4-9) from the data link (i.e., said Cable) or injecting the signals into the data link (See col. 4, lines 14-22 and Fig. 1).

 Referring to claim 5. Becker teaches
- the mobile data unit (i.e., test equipment Analyzer 3 of Fig. 1) is a mobile operator control and/or monitoring device (See col. 2, lines 11-19; actually, said test equipment Analyzer performs vehicle diagnostics, i.e., testing control and/or monitoring said testing result).

Referring to claim 6, Becker teaches

• a transmission of a signal (i.e., unidirectional digital signals) via the data link (i.e., Cable 2 of Fig. 1) between a pair of level converters (i.e., differential line driver/receiver circuits 11 and 12 in Fig. 1) is based on a differential transmission principle (See col. 3, lines 1-5).

Referring to claim 7, Becker teaches

• a transmission of a signal (i.e., unidirectional digital signals) using² the data link (i.e., Cable 2 of Fig. 1) between a pair of level converters (i.e., differential line driver/receiver circuits 11 and 12 in Fig. 1) is based on a differential transmission principle (See col. 3, lines 1-5).

^{1 &}quot;via" prep is defined as "by way of" and "by means of", and

Application/Control Number: 10/511,022 Page 5

Art Unit: 2112 Non-Final Office Action

Referring to claim 8, Becker discloses a system (i.e., electronic diagnostic system; See Abstract and col. 1, lines 6-7) for connecting a mobile data unit (i.e., test equipment Analyzer 3 of Fig. 1) to a field bus (i.e., CAN bus; See col. 2, lines 54-59), comprising:

- a coupling unit (i.e., Active connector 1 of Fig. 1) is connected to the field bus (i.e., said CAN bus) via a spur line (i.e., Conductors 5-8 in Fig. 1) and a line driver (i.e., physical layer Circuit 9 of Fig. 1; See col. 2, line 53 through col. 3, line 1), and
- the signals (i.e., unidirectional digital signals) at the output of the line driver (i.e., at the output of said physical layer Circuit; See col. 2, lines 65-67) are fed using a first level converter (i.e., a first differential line driver/receiver circuit 11 of Fig. 1) into a data link (i.e., Cable 2 of Fig. 1) or are received from therefrom (See col. 3, lines 1-3 and Fig. 1), and wherein
 - o the mobile data unit (i.e., said test equipment Analyzer) receives the signals (i.e., said unidirectional digital signals) using a second level converter (i.e., a second differential line driver/receiver circuit 12 of Fig. 1; See col. 3, lines 4-9) from the data link (i.e., said Cable) or feeds them thereinto (See col. 4, lines 14-22 and Fig. 1).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 Kramer et al. [US 6,466,539 B1] disclose bus system.

Westerfeld et al. [US 6,614,634 B1] disclose field bus arrangement with a field bus distributor. Hansemann et al. [US 5,805,052 A] disclose cable system for signal transmission.

Cho et al. [US 6,694,439 B2] disclose apparatus for providing communications data over a power bus having a total current that is the absolute value of the most negative current excursion during communication.

² "using"_{vt} is defined as "action by means of". (Merriam-Webster's Collegiate[®] Dictionary (10th ed.))

Application/Control Number: 10/511,022

Non-Final Office Action

Page 6

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Christopher E. Lee whose telephone number is 571-272-3637. The examiner can normally

be reached on 9:30am - 5:30pm.

Art Unit: 2112

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Rehana Perveen can be reached on 571-272-3676. The fax phone number for the organization where this

application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained

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direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Christopher E. Lee Examiner

Art Unit 2112

CEL/

Christysha E. Lan